

## NOTICE OF INTENT

Department of Environmental Quality  
Office of the Secretary  
Legal Affairs Division

Organic Solvents and Solvent Degreasers  
(LAC 33:III.111 and 2123) (AQ307)

Under the authority of the Environmental Quality Act, R.S. 30:2001 et seq., and in accordance with the provisions of the Administrative Procedure Act, R.S. 49:950 et seq., the secretary gives notice that rulemaking procedures have been initiated to amend the Air regulations, LAC 33:III.111 and 2123 (AQ307).

The Rule will update and add new emission limitation and control technique efficiency requirements for organic solvent and solvent degreaser volatile organic compound (VOC) emissions. It will also add definitions to the general provisions to clarify letterpress and lithographic printing process terms. This action is required by the Clean Air Act (CAA) which provides that state implementation plans (SIPs) for ozone nonattainment areas include "reasonably available control measures" (RACT), including "reasonably available control technology" (RACT), for sources of emissions. The CAA provides that for certain nonattainment areas, states must revise their SIPs to include RACT for sources of volatile organic compound (VOC) emissions covered by a control technique guidelines (CTG) document issued after November 15, 1990, and prior to the area's date of attainment. Since EPA has issued new control technique guidelines, the state regulations need to be revised to reflect EPA's new guidelines. The basis and rationale for this Rule are to mirror the control technique guidelines issued by the EPA. This Rule meets an exception listed in R.S. 30:2019(D)(2) and R.S. 49:953(G)(3); therefore, no report regarding environmental/health benefits and social/economic costs is required.

This Rule has no known impact on family formation, stability, and autonomy as described in R.S. 49:972.

A public hearing will be held on April 28, 2010, at 1:30 p.m. in the Galvez Building, Oliver Pollock Conference Room, 602 N. Fifth Street, Baton Rouge, LA 70802. Interested persons are invited to attend and submit oral comments on the proposed amendments. Should individuals with a disability need an accommodation in order to participate, contact Donald Trahan at the address given below or at (225) 219-3985. Two hours of free parking are allowed in the Galvez Garage with a validated parking ticket.

All interested persons are invited to submit written comments on these proposed regulations. Persons commenting should reference these proposed regulations by (AQ307). Such comments must be received no later than May 5, 2010, at 4:30 p.m., and should be sent to Donald Trahan, Attorney Supervisor, Office of the Secretary, Legal Affairs Division, Box 4302, Baton Rouge, LA 70821-4302 or to FAX (225) 219-3398 or by e-mail to donald.trahan@la.gov. Copies of these proposed regulations can be purchased by contacting the DEQ Public Records Center at (225) 219-3168. Check or money order is required in advance for each copy of AQ307. These proposed regulations are available on the Internet at [www.deq.louisiana.gov/portal/tabid/1669/default.aspx](http://www.deq.louisiana.gov/portal/tabid/1669/default.aspx).

These proposed regulations are available for inspection at the following DEQ office locations from 8 a.m. until 4:30 p.m.: 602 N. Fifth Street, Baton Rouge, LA 70802; 1823 Highway 546, West Monroe, LA 71292; State Office Building, 1525 Fairfield Avenue, Shreveport, LA 71101; 1301 Gadwall Street, Lake Charles, LA 70615; 111 New Center Drive, Lafayette, LA 70508; 110 Barataria Street, Lockport, LA 70374; 201 Evans Road, Bldg. 4, Suite 420, New Orleans, LA 70123.

Herman Robinson, CPM  
Executive Counsel

**Title 33**  
**ENVIRONMENTAL QUALITY**  
**Part III. Air**

**Chapter 1. General Provisions**

**§111. Definitions**

A. When used in these rules and regulations, the following words and phrases shall have the meanings ascribed to them below.

\* \* \*

*Coldset Printing*—a web offset printing process in which ink is allowed to dry naturally through absorption and evaporation.

\* \* \*

*Flexible Package Printing Facility*—a facility that uses either rotogravure printing or flexographic printing processes on flexible packaging.

*Flexible Packaging*—any package or part of a package the shape of which can be readily changed, including, but not limited to, bags, pouches, liners, and wraps utilizing paper, plastic, film, aluminum foil, metalized or coated paper or film, or any combination of these materials.

\* \* \*

*Fountain Solution*—a solution used on an offset lithographic press to keep the ink from adhering to the non-image areas of the offset lithographic plate.

\* \* \*

*Heatset Dryer*—a hot air dryer used in heatset lithography to heat the printed substrate and to promote the evaporation of the ink oils.

*Heatset Web Offset Lithographic Printing*—a type of web offset lithographic printing process where heat is applied via a drying oven to set and dry the ink.

\* \* \*

*Letterpress Printing*—relief printing of text and/or images using a press with a “type-high bed,” in which a reversed, raised surface is inked and then pressed into a sheet of paper to obtain a positive, right-reading image.

\* \* \*

*Miscellaneous Metal Parts and Products Coating*—the coating of miscellaneous metal parts and products in the following categories:

a. – e. ...

f. fabricated metal products (metal-covered doors, frames, etc.); ~~and~~

g. any other category of coated metal products except:

i. those on the specified list in LAC 33:III.2123.C. Table 1,

Items 1-63, 5-7, and 1013-17 of surface coating processes, which are included in the Standard Industrial Classification Code major group 33 (primary metal industries), major group 34 (fabricated metal products), major group 35 (nonelectrical machinery), major group 36 (electrical machinery), major group 37 (transportation equipment), major group 38 (miscellaneous instruments), and major group 39 (miscellaneous manufacturing industries);:

ii. coating operations covered under 40 CFR 63, Subpart GG – National Emissions Standards for Aerospace Manufacturing and Rework Facilities; and

iii. the surface coating of metal parts and products performed on-site at installations owned or operated by the armed forces of the United States (including the

Coast Guard, and the National Guard of any state) or the National Aeronautics and Space Administration, or the surface coating of military munitions manufactured by or for the armed forces of the United States.

\* \* \*

Offset Lithographic Printing—an indirect printing method in which ink is transferred from the lithographic plate to a rubber-covered intermediate “blanket” cylinder, and then from the blanket cylinder to the paper or other printing substrate.

\* \* \*

Sheet-Fed Printing—a process in which individual sheets of paper or other substrates are fed into the press.

\* \* \*

Web Printing—a process where a continuous roll of paper or other substrate is fed into the press, and rewound or cut to size after printing.

**AUTHORITY NOTE:** Promulgated in accordance with R.S. 30:2054.

**HISTORICAL NOTE:** Promulgated by the Department of Environmental Quality, Office of Air Quality and Nuclear Energy, Air Quality Division, LR 13:741 (December 1987), amended LR 14:348 (June 1988), LR 15:1061 (December 1989), amended by the Office of Air Quality and Radiation Protection, Air Quality Division, LR 17:777 (August 1991), LR 21:1081 (October 1995), LR 22:1212 (December 1996), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:2444 (November 2000), amended by the Office of the Secretary, Legal Affairs Division, LR 32:808 (May 2006), LR 32:1599 (September 2006), LR 33:2082 (October 2007), LR 34:70 (January 2008), LR 35:1101 (June 2009), LR 36:\*\*.

**Chapter 21. Control of Emission of Organic Compounds**

**Subchapter B. ~~Organic Solvents~~ Surface Coatings**

**§2123. Organic Solvents**

A. Except as provided in Subsections B and C of this Section, any emissions ~~source using organic solvents having an emission~~ of volatile organic compounds resulting from the application of surface coatings solvents of more than 3 pounds (1.3 kilograms) per hour or 15 pounds (6.8 kilograms) per day, or an equivalent level of 2.7 tons per 12-month rolling period, shall ~~reduce the control~~ emissions of volatile organic compounds through the use of low solvent coatings, as provided in Subsection C of this Section, or, where feasible, by incorporating one or more of the following control methods:

A.1. – B.2. ...

C. **Surface Coating Industries.** No person may cause, suffer, allow, or permit volatile organic compound (VOC) emissions from the surface coating of any materials affected by this Subsection to exceed the emission limits as specified in this Section.

<b><u>Table 1. Surface Coating Industries</u></b>	
<b>Affected Facility</b>	<b>Daily Weighted Average VOC Emission Limitation</b>

	Lbs. per Gal. of Coating as applied (minus water and exempt solvent)	Kgs. per Liter of Coating as applied (minus water and exempt solvent)
1. Large Appliance Coating Industry		
General, One Component ( <del>Baked/Air Dried</del> )	2.3/ <del>2.3</del>	0.275/ <del>0.275</del>
General, Multi-Component (Baked/Air Dried)	2.3 / 2.8	0.275 / 0.340
Extreme High Gloss ( <del>Baked/Air Dried</del> )	3.0/ <del>2.8</del>	0.360/ <del>0.340</del>
Extreme Performance ( <del>Baked/Air Dried</del> )	3.0 / <del>3.5</del> 2.8	0.360 / <del>0.420</del> 0.340
Heat Resistant ( <del>Baked/Air Dried</del> )	3.0 / <del>3.5</del> 2.8	0.360 / <del>0.420</del> 0.340
Metallic ( <del>Baked/Air Dried</del> )	3.5 / <del>3.5</del> 2.8	0.420 / <del>0.420</del> 0.340
Pretreatment Coatings ( <del>Baked/Air Dried</del> )	3.5 / <del>3.5</del> 2.8	0.420 / <del>0.420</del> 0.340
Solar Absorbent ( <del>Baked/Air Dried</del> )	3.0 / <del>3.5</del> 2.8	0.360 / <del>0.420</del> 0.340
2. Surface Coating of Cans		
Sheet Basecoat ( <del>E</del> exterior and <del>I</del> nterior) and <del>O</del> ver- <del>V</del> arnish: Two- <del>P</del> iece <del>C</del> ean <del>E</del> exterior ( <del>B</del> asecoat and <del>O</del> ver- <del>V</del> arnish)	2.8	0.34
Two and <del>T</del> hree- <del>P</del> iece <del>C</del> ean <del>I</del> nterior <del>B</del> ody <del>S</del> spray, <del>T</del> wo- <del>P</del> iece <del>C</del> ean <del>E</del> exterior <del>E</del> nd ( <del>S</del> spray or <del>R</del> oll <del>C</del> oat)	4.2	0.51
Three- <del>P</del> iece <del>C</del> ean <del>S</del> ide- <del>S</del> eam <del>S</del> spray	5.5	0.66
End <del>S</del> ealing <del>C</del> ompound	3.7	0.44
3. Surface Coating of Coils		
Prime and <del>T</del> opcoat or <del>S</del> ingle <del>C</del> oat <del>O</del> peration	2.6	0.31

4. Surface Coating of Fabrics		
Fabric Facility	2.9	0.35
Vinyl Coating Line ( <del>E</del> except Plasticol <del>C</del> eoatings)	3.8	0.45
5. Surface Coating of Assembly Line Automobiles and Light Duty Trucks		
Prime application, flashoff area and oven (determined on a monthly basis)	1.2	0.14
Primer surface application flashoff area and oven	2.8	0.34
Topcoat application, flashoff area and oven	2.8	0.34
Final repair application, flashoff area and oven	4.8	0.58
As an alternative to the emission limitation of 2.8 pounds of VOC per gallon of coating applied for the primer surfacers and/or topcoat application, compliance with these emission limitations may be demonstrated by meeting a standard of 15.1 pounds of VOC per gallon of solids deposited.		
65. Surface Coating—Magnet Wire Coating		
Coating Line	1.7	0.20
76. Surface Coating of Metal Furniture		
General, One Component (Baked/Air Dried)	2.3 / 2.3	0.275 / 0.275
General, Multi-Component (Baked/Air Dried)	2.3 / 2.8	0.275 / 0.340
Extreme High Gloss (Baked/Air Dried)	3.0 / 2.8	0.360 / 0.340
Extreme Performance ( <del>Baked/Air Dried</del> )	3.0 / <del>3.5</del>	0.360 / <del>0.420</del>
Heat Resistant ( <del>Baked/Air Dried</del> )	3.0 / <del>3.5</del>	0.360 / <del>0.420</del>
Metallic ( <del>Baked/Air Dried</del> )	<del>3.5 / 3.5</del> <u>3.0</u>	<del>0.420 / 0.420</del> <u>0.360</u>

Pretreatment Coatings ( <del>Baked/Air Dried</del> )	<u>3.5 / 3.53.0</u>	<u>0.420 / 0.420.360</u>		
Solar Absorbent ( <del>Baked/Air Dried</del> )	<u>3.0 / 3.5</u>	<u>0.360 / 0.420</u>		
<b><u>Affected Facility</u></b>	<b><u>Daily Weighted Average</u></b> <b><u>VOC Emission Limitation</u></b>			
	<b><u>Lbs. per Gal. of Coating as applied (minus water and exempt solvent)</u></b>	<b><u>Lbs. per Gal. of Solids</u></b>	<b><u>Kgs. per Liter of Coating as applied (minus water and exempt solvent)</u></b>	<b><u>Kgs. per Liter of Solids</u></b>
<b><u>§7. Surface Coating of Miscellaneous Metal Parts and Products</u></b>				
<u>General, One Component or Multi-Component (Baked/Air Dried)</u>	<u>2.3 / 2.8</u>	<u>4.52 / 3.35</u>	<u>0.28 / 0.34</u>	<u>0.54 / 0.40</u>
<u>Camouflage</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>
<u>Electric Insulating Varnish</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>
<u>Etching Filler</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>
<u>Extreme High Gloss (Baked/Air Dried)</u>	<u>3.0 / 3.5</u>	<u>6.67 / 5.06</u>	<u>0.36 / 0.42</u>	<u>0.80 / 0.61</u>
<u>Extreme Performance (Baked/Air Dried)</u>	<u>3.0 / 3.5</u>	<u>6.67 / 5.06</u>	<u>0.36 / 0.42</u>	<u>0.80 / 0.61</u>
<u>Heat Resistant (Baked/Air Dried)</u>	<u>3.0 / 3.5</u>	<u>6.67 / 5.06</u>	<u>0.36 / 0.42</u>	<u>0.80 / 0.61</u>
<u>High Performance Architectural</u>	<u>3.5</u>	<u>5.06</u>	<u>0.42</u>	<u>0.61</u>
<u>High Temperature</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>
<u>Metallic</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>
<u>Military Specification (Baked/Air Dried)</u>	<u>2.3 / 2.8</u>	<u>4.52 / 3.35</u>	<u>0.28 / 0.34</u>	<u>0.54 / 0.40</u>
<u>Mold Seal</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>
<u>Pan Baking</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>

<u>Prefabricated Architectural, One Component or Multi-Component (Baked/Air Dried)</u>	<u>2.3 / 3.5</u>	<u>6.67 / 3.35</u>	<u>0.28 / 0.42</u>	<u>0.80 / 0.80</u>
<u>Pretreatment Coatings</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>
<u>Repair and Touch Up (Baked/Air Dried)</u>	<u>3.0 / 3.5</u>	<u>Does not apply</u>	<u>0.36 / 0.42</u>	<u>Does not apply</u>
<u>Silicone Release</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>
<u>Solar Absorbent (Baked/Air Dried)</u>	<u>3.0 / 3.5</u>	<u>6.67 / 5.06</u>	<u>0.36 / 0.42</u>	<u>0.80 / 0.80</u>
<u>Vacuum Metalizing</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>
<u>Drum Coating, New, Exterior</u>	<u>2.8</u>	<u>4.52</u>	<u>0.34</u>	<u>0.54</u>
<u>Drum Coating, New, Interior</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>
<u>Drum Coating, Reconditioned, Exterior</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>
<u>Drum Coating, Reconditioned, Interior</u>	<u>4.2</u>	<u>9.78</u>	<u>0.50</u>	<u>1.17</u>
<u>Clear Coat</u>	<u>4.3</u>		<u>0.52</u>	
<u>Air or force air dried items (not oven dried)</u>	<u>3.5</u>		<u>0.42</u>	
<u>Frequent color change and/or large numbers of colors applied, or first coat on untreated ferrous substrate</u>	<u>3.0</u>		<u>0.36</u>	
<u>Outdoor or harsh exposure or extreme performance characteristics</u>	<u>3.5</u>		<u>0.42</u>	
<u>No or infrequent color change, or small number of colors applied:</u>				
<u>a. Powder Coating</u>	<u>0.4</u>	<u>Does not apply</u>	<u>0.05</u>	<u>Does not apply</u>
<u>b. Other</u>	<u>3.0</u>		<u>0.36</u>	

These limits do not apply to operations covered in 1-7 or 10 herein or exterior coating of fully assembled aircraft, auto refinishing, and auto customizing topecoating (processing less than 35 vehicles per day).

#### 8. Surface Coating of Miscellaneous Plastic Parts and Products

<u>General, One Component</u>	<u>2.3</u>	<u>3.35</u>	<u>0.28</u>	<u>0.40</u>
<u>General, Multi-Component</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>
<u>Electric Dissipating Coatings and Shock-Free Coatings</u>	<u>6.7</u>	<u>74.7</u>	<u>0.80</u>	<u>8.96</u>
<u>Extreme Performance</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>
	<u>(2-pack coatings)</u>	<u>(2-pack coatings)</u>	<u>(2-pack coatings)</u>	<u>(2-pack coatings)</u>
<u>Metallic</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>
<u>Military Specification</u>	<u>2.8 (1 pack)</u>	<u>4.52 (1 pack)</u>	<u>0.34 (1pack)</u>	<u>0.54 (1pack)</u>
	<u>3.5 (2 pack)</u>	<u>6.67 (2 pack)</u>	<u>0.42 (2pack)</u>	<u>0.80 (2pack)</u>
<u>Mold Seal</u>	<u>6.3</u>	<u>43.7</u>	<u>0.76</u>	<u>5.24</u>
<u>Multi-Colored Coatings</u>	<u>5.7</u>	<u>25.3</u>	<u>0.68</u>	<u>3.04</u>
<u>Optical Coatings</u>	<u>6.7</u>	<u>74.7</u>	<u>0.80</u>	<u>8.96</u>
<u>Vacuum Metalizing</u>	<u>6.7</u>	<u>74.7</u>	<u>0.80</u>	<u>8.96</u>

#### 9. Surface Coating of Automotive/Transportation Plastic Parts

##### a. High Bake Coatings–Interior and Exterior Parts

<u>Flexible Primer</u>	<u>4.5</u>	<u>11.58</u>	<u>0.54</u>	<u>1.39</u>
<u>Non-Flexible Primer</u>	<u>3.5</u>	<u>6.67</u>	<u>0.42</u>	<u>0.80</u>
<u>Base Coat</u>	<u>4.3</u>	<u>10.34</u>	<u>0.52</u>	<u>1.24</u>
<u>Clear Coat</u>	<u>4.0</u>	<u>8.76</u>	<u>0.48</u>	<u>1.05</u>
<u>Non-Base Coat/Clear Coat</u>	<u>4.3</u>	<u>10.34</u>	<u>0.52</u>	<u>1.24</u>

##### b. Low Bake/Air Dried Coatings–Exterior Parts

<u>Primer</u>	<u>4.8</u>	<u>13.80</u>	<u>0.58</u>	<u>1.66</u>
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<u>Base Coat</u>	<u>5.0</u>	<u>15.59</u>	<u>0.60</u>	<u>1.87</u>
<u>Clear Coat</u>	<u>4.5</u>	<u>11.58</u>	<u>0.54</u>	<u>1.39</u>
<u>Non-Base Coat/Clear Coat</u>	<u>5.0</u>	<u>15.59</u>	<u>0.60</u>	<u>1.87</u>
<u>c. Low Bake/Air Dried Coatings-- Interior Parts</u>	<u>5.0</u>	<u>15.59</u>	<u>0.60</u>	<u>1.87</u>
<u>d. Touch Up and Repair Coatings</u>	<u>5.2</u>	<u>17.72</u>	<u>0.62</u>	<u>2.13</u>
<u>For red, yellow, and black auto coatings, except touch up and repair coatings, the limit is determined by multiplying the appropriate limit in Item 9 of this Table by 1.15.</u>				
<b><u>10. Surface Coating of Business Machine Plastic Parts</u></b>				
<u>Primer</u>	<u>2.9</u>	<u>4.80</u>	<u>0.35</u>	<u>0.57</u>
<u>Topcoat</u>	<u>2.9</u>	<u>4.80</u>	<u>0.35</u>	<u>0.57</u>
<u>Texture Coat</u>	<u>2.9</u>	<u>4.80</u>	<u>0.35</u>	<u>0.57</u>
<u>Fog Coat</u>	<u>2.2</u>	<u>3.14</u>	<u>0.26</u>	<u>0.38</u>
<u>Touch Up and Repair</u>	<u>2.9</u>	<u>4.80</u>	<u>0.35</u>	<u>0.57</u>
<b><u>11. Surface Coating of Pleasure Craft</u></b>				
<u>Extreme High Gloss Topcoat</u>	<u>4.1</u>	<u>9.2</u>	<u>0.49</u>	<u>1.10</u>
<u>High Gloss Topcoat</u>	<u>3.5</u>	<u>6.7</u>	<u>0.42</u>	<u>0.80</u>
<u>Pretreatment Wash Primer</u>	<u>6.5</u>	<u>55.6</u>	<u>0.78</u>	<u>6.67</u>
<u>Finish Primer/Surfacer</u>	<u>3.5</u>	<u>6.7</u>	<u>0.42</u>	<u>0.80</u>
<u>High Build Primer Surfacer</u>	<u>2.8</u>	<u>4.6</u>	<u>0.34</u>	<u>0.55</u>
<u>Aluminum Substrate Antifoulant Coating</u>	<u>4.7</u>	<u>12.8</u>	<u>0.56</u>	<u>1.53</u>
<u>Other Substrate Antifoulant Coating</u>	<u>2.8</u>	<u>4.4</u>	<u>0.33</u>	<u>0.53</u>
<u>All Other Pleasure Craft Surface Coatings (for Metal or Plastic)</u>	<u>3.5</u>	<u>6.7</u>	<u>0.42</u>	<u>0.80</u>
<b><u>Affected Facility</u></b>	<b><u>Daily Weighted Average VOC Emission Limitation</u></b>			

	<u>Lbs. per Gal. of Coating as applied (minus water and exempt solvent)</u>	<u>Kgs. per Liter of Coating as applied (minus water and exempt solvent)</u>
<u>12. Surface Coating of Motor Vehicle Materials</u>		
<u>Motor Vehicle Cavity Wax</u>	<u>5.4</u>	<u>0.65</u>
<u>Motor Vehicle Sealer</u>	<u>5.4</u>	<u>0.65</u>
<u>Motor Vehicle Deadener</u>	<u>5.4</u>	<u>0.65</u>
<u>Motor Vehicle Gaskets/Gasket-Sealing Material</u>	<u>1.7</u>	<u>0.20</u>
<u>Motor Vehicle Underbody Coating</u>	<u>5.4</u>	<u>0.65</u>
<u>Motor Vehicle Trunk Interior Coating</u>	<u>5.4</u>	<u>0.65</u>
<u>Motor Vehicle Bedliner</u>	<u>1.7</u>	<u>0.20</u>
<u>Motor Vehicle Lubricating Wax/Compound</u>	<u>5.8</u>	<u>0.70</u>
<u>The limits in Items 7-12 of this Table do not apply to operations covered in Items 1-6 or 13-17 herein, or to aerosol coatings, architectural coatings, or automobile refinish coatings.</u>		
<u>913. Factory Surface Coatings of Flat Wood Paneling with VOC Emissions Greater Than 15 Pounds Per Day Before Controls</u>		
All Inks, Coatings, and Adhesives	2.1	0.25
<u>1014. Surface Coatings for Marine Vessels and Oilfield Tubulars and Ancillary Oilfield Equipment</u>		
a. Except as otherwise provided in this Section, a person shall not apply a marine coating with a VOC content in excess of the following limits:		
Baked Coatings	3.5	0.42
Air-Dried, Single-Component Alkyd or Vinyl Flat or Semi-Gloss Finish Coatings	3.5	0.42
Two Component Coatings	3.5	0.42

b. Except for the parishes of Ascension, Calcasieu, East Baton Rouge, Iberville, Livingston, Pointe Coupee, and West Baton Rouge, in which the VOC limitations in ~~Subparagraph C.10~~ Item 14.a of this ~~Section~~ Table may not be exceeded, specialty marine coatings and coatings on oilfield tubulars and ancillary oilfield equipment with a VOC content not in excess of the following limits may be applied:

Heat Resistant	3.5	0.42
Metallic Heat Resistant	4.42	0.53
High Temperature (Fed. Spec. TT-P-28)	5.41	0.65
Pre-Treatment Wash Primer	6.5	0.78
Underwater Weapon	3.5	0.42
Elastomeric Adhesives With 15 Percent by Weight Natural or Synthetic Rubber	6.08	0.73
Solvent-Based Inorganic Zinc Primer	5.41	0.65
Pre-Construction and Interior Primer	3.5	0.42
Exterior Epoxy Primer	3.5	0.42
Navigational Aids	3.5	0.42
Sealant for Wire-Sprayed Aluminum	5.4	0.648
Special Marking	4.08	0.49
Tack Coat (Epoxies)	5.08	0.61
Low Activation Interior Coating	4.08	0.49
Repair and Maintenance Thermoplastic	5.41	0.65
Extreme High Gloss Coating	4.08	0.49
Antenna Coating	4.42	0.53
Antifoulant	3.66	0.44
High Gloss Alkyd	3.5	0.42
Anchor Chain Asphalt Varnish (Fed. Spec. TT-V-51)	5.2	0.62
Wood Spar Varnish (Fed. Spec. TT-V-119)	4.1	0.492

Dull Black Finish Coating (DOD-P-15146)	3.7	0.444
Tank Coatings (DOD-P-23236)	3.5	0.42
Potable Water Tank Coating (DOD-P-23236)	3.7	0.444
Flight Deck Markings (DOD-C-24667)	4.2	0.504
Vinyl Acrylic Top Coats	5.4	0.648
Antifoulant Applied to Aluminum Hulls	4.5	0.55
<b><u>Affected Facility</u></b>	<b>Daily Weighted Average VOC Emission Limitation</b>	
	<b><u>kgKgs. VOC/kgKgs. Solids</u></b> <b><u>(lbLbs. VOC/lbLbs. Solids)</u></b>	<b><u>kgKgs. VOC/kgKgs. Coating</u></b> <b><u>(lbLbs. VOC/lbLbs. Coating)</u></b>
<b><u>15. Surface Coating of Paper, Film, Foil, Pressure-Sensitive Tape, and Labels</u></b>		
Paper, Film, and Foil	0.40	0.08
Pressure-Sensitive Tape and Labels	0.20	0.067
<b><u>Affected Facility</u></b>	<b><u>Daily Weighted Average VOC Emission Limitation</u></b>	
	<b><u>Lbs. per Gal. of Deposited Solids (minus water and exempt solvent)</u></b>	<b><u>Kgs. per Liter of Deposited Solids (minus water and exempt solvent)</u></b>
<b><u>16. Surface Coating of Assembly Line Automobiles and Light Duty Trucks</u></b>		
<b><u>Primer-Surfacer Operations (Including Application Area, Flashoff Area, and Oven)</u></b>	<b><u>12</u></b>	<b><u>1.44</u></b>
<b><u>Topcoat Operations (Including Application Area, Flashoff Area and Oven)</u></b>	<b><u>12</u></b>	<b><u>1.44</u></b>

<u>Final Repair Operations (Including Flashoff Area and Oven)</u>	<u>4.8</u>	<u>0.58</u>	
<u>Combined Primer-Surfacer and Topcoat Operations</u>	<u>12</u>	<u>1.44</u>	
<u>Electrodeposition Primer Operations (Including Application Area, Spray/Rinse Stations, and Curing Oven)</u>	<u>When Solids Turnover Ratio is <math>R_T \geq 0.16</math></u>	<u>When <math>0.040 \leq R_T &lt; 0.160</math></u>	<u>When <math>R_T &lt; 0.040</math></u>
	<u>0.084 kgs./liter (0.7 lbs./gal.) coating solids applied</u>	<u><math>0.084 \times 350^{0.160-R_T}</math> kgs./liter (<math>0.084 \times 350^{0.160-R_T} \times 8.34</math> lbs./gal.) coating solids applied</u>	<u>No VOC emission limit</u>
<u>Affected Facility</u>	<b><u>Daily Weighted Average VOC Emission Limitation</u></b>		
	<b><u>Lbs. VOC per Gal. of Adhesive or Adhesive Primer (minus water and exempt compounds)</u></b>	<b><u>Grams VOC per Liter of Adhesive or Adhesive Primer (minus water and exempt compounds)</u></b>	
<u>17. General and Specialty Adhesive Application Processes</u>			
<u>a. General Adhesive Application Process</u>			
<u>Reinforced Plastic Composite</u>	<u>1.7</u>	<u>200</u>	
<u>Flexible Vinyl</u>	<u>2.1</u>	<u>250</u>	
<u>Metal</u>	<u>0.3</u>	<u>30</u>	
<u>Porous Material (Except Wood)</u>	<u>1.0</u>	<u>120</u>	
<u>Rubber</u>	<u>2.1</u>	<u>250</u>	
<u>Wood</u>	<u>0.3</u>	<u>30</u>	

<u>Other Substrates</u>	<u>2.1</u>	<u>250</u>
<u>b. Specialty Adhesive Application Processes</u>		
<u>Ceramic Tile Installation</u>	<u>1.1</u>	<u>130</u>
<u>Contact Adhesive</u>	<u>2.1</u>	<u>250</u>
<u>Cove Base Installation</u>	<u>1.3</u>	<u>150</u>
<u>Floor Covering Installation (Indoor)</u>	<u>1.3</u>	<u>150</u>
<u>Floor Covering Installation (Outdoor)</u>	<u>2.1</u>	<u>250</u>
<u>Floor Covering Installation (Perimeter Bonded Sheet Vinyl)</u>	<u>5.5</u>	<u>660</u>
<u>Metal to Urethane/Rubber Molding or Casting</u>	<u>7.1</u>	<u>850</u>
<u>Motor Vehicle Adhesive</u>	<u>2.1</u>	<u>250</u>
<u>Motor Vehicle Weather Strip Adhesive</u>	<u>6.3</u>	<u>750</u>
<u>Multipurpose Construction</u>	<u>1.7</u>	<u>200</u>
<u>Plastic Solvent Welding (ABS)</u>	<u>3.3</u>	<u>400</u>
<u>Plastic Solvent Welding (Except ABS)</u>	<u>4.2</u>	<u>500</u>
<u>Sheet Rubber Lining Installation</u>	<u>7.1</u>	<u>850</u>
<u>Single-Ply-Roof Membrane Installation/Repair (Except EPDM)</u>	<u>2.1</u>	<u>250</u>
<u>Structural Glazing</u>	<u>0.8</u>	<u>100</u>
<u>Thin Metal Laminating</u>	<u>6.5</u>	<u>780</u>
<u>Tire Repair</u>	<u>0.8</u>	<u>100</u>
<u>Waterproof Resorcinol Glue Application</u>	<u>1.4</u>	<u>170</u>
<u>c. Adhesive Primer Application Processes</u>		
<u>Motor Vehicle Glass Bonding Primer</u>	<u>7.5</u>	<u>900</u>
<u>Plastic Solvent Welding Adhesive Primer</u>	<u>5.4</u>	<u>650</u>

<u>Single-Ply Roof Membrane Adhesive</u>	<u>2.1</u>	<u>250</u>
<u>Primer</u>		
<u>Other Adhesive Primer</u>	<u>2.1</u>	<u>250</u>
<u>18. Fiberglass Boat Manufacturing Materials</u>		
<u>All fiberglass boat manufacturing operations shall comply with all requirements of 40 CFR Part 63, Subpart VVVV, as incorporated by reference in LAC 33:III.5122, if total VOC emissions from all fiberglass boat manufacturing operations are more than 15 pounds (6.8 kilograms) per day.</u>		

#### D. Control Techniques

1. If add-on controls such as incinerators or vapor recovery systems are used to comply with the emission limitation requirements, in terms of pounds per gallon of solids as applied (determined in accordance with Paragraph D.8 of this Section), the volatile organic compound capture and abatement system shall be at least 80 percent efficient overall (85 percent for industrial cleaning solvents, and miscellaneous industrial adhesive operations; and 90 percent for factory surface coating of flat wood paneling, surface coating of metal furniture, large appliance coating, surface coating of miscellaneous metal parts and products, surface coating of miscellaneous plastic parts and products, surface coating of automotive/transportation plastic parts, surface coating of business machine plastic parts, surface coating of pleasure craft, surface coating of paper, film, foil, pressure-sensitive tape, and labels, and surface coating of motor vehicle materials). All surface coating facilities shall submit to the Office of Environmental Services, for approval, design data for each capture system and emission control device that is proposed for use. The effectiveness of the capture system (i.e., capture efficiency) shall be determined using the procedure specified in Paragraph E.6 of this Section.

2. – 3. ...

4. Compliance with the ~~alternative~~ emission limits established in Table 1, Item 16 of in Paragraph Subsection C.5 of this Section of 15.1 pounds of VOC per gallon of solids deposited shall be determined in accordance with EPA's "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light Duty Truck Topcoat Operations", EPA ~~450/3-88-018453/R-08-002, December, 1988~~ September, 2008.

5. ...

6. Surface coating facilities on any property in Ascension, Calcasieu, East Baton Rouge, Iberville, Livingston, Pointe Coupee, and West Baton Rouge parishes that when controlled have a potential to emit, at maximum production, a combined weight (total from the property) of VOCs less than 10 tons in any consecutive 12 calendar months are exempt from the provisions of Subsection C of this Section. Surface coating facilities on any property in parishes other than Ascension, Calcasieu, East Baton Rouge, Iberville, Livingston, Pointe Coupee, and West Baton Rouge that when uncontrolled have a potential to emit a combined weight of VOCs less than 100 pounds (45 kilograms) in any consecutive 24-hour period or 10 tons in any consecutive 12 calendar months are exempt from the provisions of Subsection C of this Section. Any surface coating facility with VOC emissions of less than or equal to 15 pounds (6.8 kilograms) per day is exempt from the provisions of ~~Paragraphs C, Table 1, Items 1, 87, and 115~~

of Subsection C of this Section.

7. – 9. ...

10. Control techniques for use of industrial cleaning solvents include:

- a. covering open containers and used applicators;
- b. minimizing air circulation around cleaning operations;
- c. properly disposing of used solvent and shop towels;
- d. implementing equipment practices that minimize emissions (e.g.,

keeping arts cleaners covered, maintaining cleaning equipment to repair solvent leaks, etc.); and  
 e. employing cleaning material with a VOC content limit of 50 grams  
VOC per liter (0.42 lb./gal.), or a composite vapor pressure of 8 millimeters of mercury at 20  
degrees Celsius.

11. Cleaning operations in the course of the following categories are excluded  
from the requirements of Paragraph D.10 of this Section:

- a. aerospace coating;
- b. wood furniture coating;
- c. application of coatings in shipbuilding and ship repair;
- d. flexible packaging printing;
- e. lithographic printing;
- f. letterpress printing;
- g. flat wood paneling coating;
- h. large appliance coating;
- i. metal furniture coating;
- j. paper, film and foil coating;
- k. plastic parts coating;
- l. miscellaneous metals parts coating;
- m. fiberglass boat manufacturing;
- n. application of miscellaneous industrial adhesives; and
- o. auto and light-duty truck assembly coating.

12. VOC content and vapor pressure limits applicable in cleaning activities in  
fiberglass boat manufacturing are as follows:

a. VOC cleaning solvents for routine application equipment cleaning  
shall contain no more than 5 percent VOC by weight, or have a composite vapor pressure of no  
more than 0.50 millimeters of mercury at 20 degrees Celsius.

b. Non-VOC solvents shall be used to remove cured resin and gel  
coat from application equipment.

13. The following are the only allowable adhesive application methods:

- a. electrostatic spray;
- b. HVLP spray;
- c. flow coat;
- d. roll coat or hand application, including non-spray application

methods similar to hand application or mechanically powered caulking gun, brush, or direct hand  
application;

- e. dip coat (including electrodeposition);
- f. airless spray;
- g. air-assisted airless spray; and
- h. other adhesive application methods capable of achieving a transfer

efficiency equivalent to or better than that achieved by HVLP spraying.

E. – F.4. ...

G. ~~Mandatory Work Practices for Surface Coating of Flat Wood Paneling.~~ The owner/operator of any facility performing factory surface coating ~~of flat wood paneling~~ shall comply with the following mandatory work practices:

G.1. – I. ...

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2054.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Air Quality and Nuclear Energy, Air Quality Division, LR 13:741 (December 1987), amended LR 16:119 (February 1990), amended by the Office of Air Quality and Radiation Protection, Air Quality Division, LR 17:654 (July 1991), LR 18:1122 (October 1992), LR 22:340 (May 1996), LR 22:1212 (December 1996), LR 23:1678 (December 1997), LR 24:23 (January 1998), LR 24:1285 (July 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 25:1240 (July 1999), LR 26:2453 (November 2000), LR 28:1765 (August 2002), LR 30:746 (April 2004), amended by the Office of the Secretary, Legal Affairs Division, LR 31:2440 (October 2005), LR 33:2086 (October 2007), LR 35:1102 (June 2009), LR 36:\*\*.

FISCAL AND ECONOMIC IMPACT STATEMENT  
FOR ADMINISTRATIVE RULESLOG #: AQ307Person  
Preparing  
Statement:Timothy Bergeron  
Timothy.Bergeron@la.gov (email address)Dept.: Environmental Quality

Phone:

225-219-3490Office: Environmental Assessment

Return

Address:

602 N. 5th. St.  
Baton Rouge, LA 70802

Rule

Title: Organic Solvents and Solvent  
Degreasers (LAC 33:III.111 and  
2123)

Date Rule

Takes Effect: Upon promulgation

## SUMMARY

(Use complete sentences)

In accordance with Section 953 of Title 49 of the Louisiana Revised Statutes, there is hereby submitted a fiscal and economic impact statement on the rule proposed for adoption, repeal or amendment. THE FOLLOWING STATEMENTS SUMMARIZE ATTACHED WORKSHEETS, I THROUGH IV AND WILL BE PUBLISHED IN THE LOUISIANA REGISTER WITH THE PROPOSED AGENCY RULE.

## I. ESTIMATED IMPLEMENTATION COSTS (SAVINGS) TO STATE OR LOCAL GOVERNMENTAL UNITS (Summary)

No implementation costs or savings to state or local governmental units are anticipated as a result of the proposed rule.

## II. ESTIMATED EFFECT ON REVENUE COLLECTIONS OF STATE OR LOCAL GOVERNMENTAL UNITS (Summary)

No increase or decrease in revenues is anticipated from the proposed action.

## III. ESTIMATED COSTS AND/OR ECONOMIC BENEFITS TO DIRECTLY AFFECTED PERSONS OR NON-GOVERNMENTAL GROUPS (Summary)

No persons or non-governmental groups will incur significant costs or realize economic benefits from the proposed action. The solvents needed to achieve these emission limits are available at competitive costs.

IV. ESTIMATED EFFECT ON COMPETITION AND EMPLOYMENT (Summary)

There will be no impact on competition or employment in the public or private sector as a result of the proposed action.

\_\_\_\_\_  
Signature of Agency Head or Designee

\_\_\_\_\_  
Legislative Fiscal Officer or Designee

Herman Robinson, CPM, Executive Counsel  
Typed Name and Title of Agency Head or Designee

\_\_\_\_\_  
Date of Signature

\_\_\_\_\_  
Date of Signature

FISCAL AND ECONOMIC IMPACT STATEMENT  
FOR ADMINISTRATIVE RULES

The following information is requested in order to assist the Legislative Fiscal Office in its review of the fiscal and economic impact statement and to assist the appropriate legislative oversight subcommittee in its deliberation on the proposed rule.

- A. Provide a brief summary of the content of the rule (if proposed for adoption, or repeal) or a brief summary of the change in the rule (if proposed for amendment). Attach a copy of the notice of intent and a copy of the rule proposed for initial adoption or repeal (or, in the case of a rule change, copies of both the current and proposed rules with amended portions indicated).

The Rule will update and add new emission limitation and control technique efficiency requirements for organic solvent and solvent degreaser VOC emissions. It will also add definitions to the general provisions to clarify letterpress and lithographic printing process terms.

- B. Summarize the circumstances which require this action. If the Action is required by federal regulation, attach a copy of the applicable regulation.

This action is required by the Clean Air Act (CAA), which provides that state implementation plans (SIPs) for ozone nonattainment areas include "reasonably available control measures" (RACM), including "reasonably available control technology" (RACT), for sources of emissions. The CAA provides that for certain nonattainment areas, states must revise their SIPs to include RACT for sources of volatile organic compound (VOC) emissions covered by a control techniques guidelines (CTG) document issued after November 15, 1990, and prior to the area's date of attainment. Since EPA has issued new control techniques guidelines, the state regulations need to be revised to reflect EPA's new guidelines.

This proposed revision will also serve as a revision to the Louisiana air quality State Implementation Plan.

- C. Compliance with Act 11 of the 1986 First Extraordinary Session  
(1) Will the proposed rule change result in any increase in the expenditure of funds? If so, specify amount and source of funding.

The proposed rule change will not result in any increase in the expenditure of funds.

(2) If the answer to (1) above is yes, has the Legislature specifically appropriated the funds necessary for the associated expenditure increase?

(a) \_\_\_ Yes. If yes, attach documentation.

(b) \_\_\_ No. If no, provide justification as to why this rule change should be published at this time.

This question is not applicable.

FISCAL AND ECONOMIC IMPACT STATEMENT

WORKSHEET

I. A. COSTS OR SAVINGS TO STATE AGENCIES RESULTING FROM THE ACTION PROPOSED

1. What is the anticipated increase (decrease) in costs to implement the proposed action?

There is no anticipated increase or decrease in costs to implement the proposed action.

COSTS	FY09-10	FY10-11	FY11-12
PERSONAL SERVICES			
OPERATING EXPENSES			
PROFESSIONAL SERVICES			
OTHER CHARGES			
EQUIPMENT	-0-	-0-	-0-
TOTAL	-0-	-0-	-0-
MAJOR REPAIR & CONSTR			
POSITIONS (#)	-0-	-0-	-0-

2. Provide a narrative explanation of the costs or savings shown in "A.1.", including the increase or reduction in workload or additional paperwork (number of new forms, additional documentation, etc.) anticipated as a result of the implementation of the proposed action. Describe all data, assumptions, and methods used in calculating these costs.

This statement is not applicable.

3. Sources of funding for implementing the proposed rule or rule change.

SOURCE	FY09-10	FY10-11	FY11-12
STATE GENERAL FUND	-0-	-0-	-0-
AGENCY SELF-GENERATED	-0-	-0-	-0-
DEDICATED	-0-	-0-	-0-
FEDERAL FUNDS	-0-	-0-	-0-
OTHER (Specify)	-0-	-0-	-0-
TOTAL	-0-	-0-	-0-

4. Does your agency currently have sufficient funds to implement the proposed action? If not, how and when do you anticipate obtaining such funds?

The department has sufficient funds to implement the proposed action.

B. COST OR SAVINGS TO LOCAL GOVERNMENTAL UNITS RESULTING FROM THE ACTION PROPOSED.

1. Provide an estimate of the anticipated impact of the proposed action on local governmental units, including adjustments in workload and paperwork requirements. Describe all data, assumptions and methods used in calculating this impact.

No impact on local governmental units is anticipated.

2. Indicate the sources of funding of the local governmental unit which will be affected by these costs or savings.

This statement is not applicable.

FISCAL AND ECONOMIC IMPACT STATEMENT  
WORKSHEET

II. EFFECT ON REVENUE COLLECTIONS OF STATE AND LOCAL GOVERNMENTAL UNITS

- A. What increase (decrease) in revenues can be anticipated from the proposed action?

No increase or decrease in revenues is anticipated from the proposed action.

REVENUE INCREASE/DECREASE	FY09-10	FY10-11	FY11-12
STATE GENERAL FUND	-0-	-0-	-0-
AGENCY SELF-GENERATED	-0-	-0-	-0-
RESTRICTED FUNDS*	-0-	-0-	-0-
FEDERAL FUNDS	-0-	-0-	-0-
LOCAL FUNDS	-0-	-0-	-0-
TOTAL	-0-	-0-	-0-

\*Specify the particular fund being impacted.

- B. Provide a narrative explanation of each increase or decrease in revenues shown in "A." Describe all data, assumptions, and methods used in calculating these increases or decreases.

This statement is not applicable.

III. COSTS AND/OR ECONOMIC BENEFITS TO DIRECTLY AFFECTED PERSONS OR NONGOVERNMENTAL GROUPS

- A. What persons or non-governmental groups would be directly affected by the proposed action? For each, provide an estimate and a narrative description of any effect on costs, including workload adjustments and additional paperwork (number of new forms, additional documentation, etc.), they may have to incur as a result of the proposed action.

No persons or non-governmental groups will incur significant costs or realize economic benefits from the proposed action. The solvents needed to achieve these emission limits are available at competitive costs.

- B. Also provide an estimate and a narrative description of any impact on receipts and/or income resulting from this rule or rule change to these groups.

There will be no impact on receipts and/or income from the proposed action.

IV. EFFECTS ON COMPETITION AND EMPLOYMENT

Identify and provide estimates of the impact of the proposed action on competition and employment in the public and private sectors. Include a summary of any data, assumptions and methods used in making these estimates.

There will be no impact on competition or employment in the public or private sector as a result of the proposed action.